

Name: _____

Grade 10 Science
Chemistry Performance Task

Background: You are a resident of Prince Edward County and have learned that a large company wants to purchase land in the county and construct a factory. A town hall meeting has been organized to allow residents to voice their opinion on the matter, hear others viewpoints and vote on whether to allow the company to purchase the land. As a resident you perform research to discover the environmental and socioeconomic impacts of the factory, then attend the meeting to discuss your opinion and persuade others to vote in your favour.

Organization: Students will be organized into groups containing 5 members. Each group will focus on 1 type of industry. Each member of the group will choose 1 community role. The community role you choose will determine your perspective regarding the purchase and development of the industry.

Type of Industry

plastics factory
fertilizer plant
pulp and paper mill
coal-fueled power plant
heavy-metal mine
commercial farm

Community Role

investor
mayor
unemployed worker
neighbour
environmentalist
business owner

Expectations:

Group: Each group will research the following: (a) the chemical processes involved with the industry, (b) environmental effects of the industry, (c) socioeconomic effects of the industry.

Individual: Each individual will prepare a 3 minute speech for the town hall meeting which describes whether they are in favour of the industry or against it - with supporting arguments. Your perspective **must** be based on your community role. You will also create a one-page flyer outlining your arguments for or against the industry. Your speech and flyer are meant to persuade other community members to support your perspective when they vote.

Assessment:

Town-hall speech

number of arguments	1	2	3	4
strength of arguments	1	2	3	4
clarity of speech	1	2	3	4
level of persuasion	1	2	3	4
role-playing ability	1	2	3	4
public speaking ability	1	2	3	4

Flyer

neatness	0	1	2	
organization	0	1	2	
graphics/graphs/charts	0	1	2	
spelling/grammar	0	1	2	
citations	0	1	2	
content (X2)	1	2	3	4

Total / 42

Conversion / 70
